

ABSTRACT

A refueling receiver includes an inlet configured to receive a nozzle. A control valve piston is connected to the inlet to allow flow from the inlet to the control valve piston. The control valve piston has an inlet side and an outlet side. An outlet is provided having an outlet fitting and a return fitting. The outlet fitting is connected to the inlet to allow flow from the inlet to the outlet fitting. A sensor is provided having an input connected to the outlet fitting, and an output connected to the return fitting to allow flow from the outlet fitting to said return fitting through the sensor. A pilot valve is in communication with the return fitting to control a pressure differential between the inlet side and the outlet side to move said control valve piston into a first position to allow flow out of the receiver, and a second position to prevent flow from leaving the receiver.